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L1: Entry 1 of 1 File: USPT Aug 14, 2001

US-PAT-NO: 6274366
DOCUMENT-IDENTIFIER: US 6274366 B1

TITLE: Enzymatically-active recombinant human .beta.-tryptase and method of making same

DATE-ISSUED: August 14, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Maffitt; Mark A.	Madison	WI		
Niles; Andrew L.	Madison	WI		
Haak-Frendscho; Mary	Madison	WI		

US-CL-CURRENT: 435/226; 435/212, 435/219, 435/252.3, 435/254.11, 435/320.1, 435/325, 536/23.1, 536/23.2

CLAIMS:

What is claimed is:

1. A DNA expression construct comprising, in 5' to 3' order: a promoter, the promoter operationally linked to a signal sequence, the signal sequence operationally-linked to a DNA sequence encoding human .beta.-tryptase, and wherein the expression construct drives the expression of enzymatically-active human .beta.-tryptase in yeast hosts transformed to contain the expression construct, wherein the DNA sequence encoding human .beta.-tryptase is SEQ. ID. NO: 1.

2. The DNA expression construct according to claim 1, wherein the signal sequence encodes a KEX2 cleavage site.

3. The DNA expression construct according to claim 1, wherein the signal sequence includes a 3' terminus encoding amino acid residues Leu-Glu-Lys-Arg.

4. The DNA expression construct according to claim 1, wherein the promoter is a constituitive promoter.

5. The DNA expression construct according to claim 1, wherein the promoter is an inducible promoter.

6. A DNA expression construct comprising, in 5' to 3' order: a promoter selected from the group consisting of AOX1, GAP, MOX, FMD, ADH, LAC4, XPR2, LEU2, GAM1, PGK1, GAL7. GADPH, CYC1, and CUP1, the promoter operationally linked to a signal sequence, the signal sequence operationally-linked to a DNA sequence encoding human .beta.-tryptase, the DNA sequence operationally linked to a terminator sequence, wherein the DNA sequence encoding human .beta.-tryptase is SEQ. ID. NO: 1.

7. The DNA expression construct according to claim 6, wherein the signal sequence encodes a KEX2 cleavage site.

8. A method of producing enzymatically-active human .beta.-tryptase comprising transforming a yeast host cell with an expression construct according to claim 1, wherein the yeast host cell expresses enzymatically-active human .beta.-tryptase.

9. The method according to claim 8, wherein a host cell of the genus Pichia is transformed.

10. The method according to claim 8, wherein a Pichia pastoris host cell is transformed.

11. The method according to claim 8, wherein a host cell having the characteristics of Pichia pastoris ATCC 20864 or Pichia pastoris strain KM71 is transformed.

12. The method according to claim 8, further comprising isolating the enzymatically-active human .beta.-tryptase produced.

13. A genetically-engineered yeast cell which expresses enzymatically-active human .beta.-tryptase comprising a Pichia pastoris host cell transformed to contain and express an expression construct according to claim 1.

1600 09/598,982 B (can't be processed)

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L5	tryptas$3 same huma$3 same beta$3 same activ$3	25	L5
L4	L3 and (activ$3)	35	L4
L3	(yeas$3 or pichi$3 or eukaryot$4) and L2	35	L3
L2	(sign$3 or secret$4) and L1	55	L2
L1	tryptas$3 same huma$3 same beta$3	60	L1

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Search Results - Record(s) 1 through 4 of 4 returned.

1. Document ID: US 20020045613 A1

L6: Entry 1 of 4 File: PGPB Apr 18, 2002

PGPUB-DOCUMENT-NUMBER: 20020045613
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020045613 A1

TITLE: 1-aroyl-piperidinyl benzamidines

PUBLICATION-DATE: April 18, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Pauls, Heinz	Flemington	NJ	US	
Gong, Yong	Bridgewater	NJ	US	
Levell, Julian	Summit	NJ	US	
Astles, Peter	Kent		GB	
Eastwood, Paul R.	Essex		GB	

US-CL-CURRENT: 514/210.18; 514/217.03, 514/217.11, 514/218, 514/252.13, 514/255.01, 514/317, 514/326, 514/422, 514/423, 540/575, 540/598, 540/607, 544/360, 544/386, 546/207, 546/226, 548/530

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

2. Document ID: US 6274366 B1

L6: Entry 2 of 4 File: USPT Aug 14, 2001

US-PAT-NO: 6274366
DOCUMENT-IDENTIFIER: US 6274366 B1

TITLE: Enzymatically-active recombinant human .beta.-tryptase and method of making same

DATE-ISSUED: August 14, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Maffitt; Mark A.	Madison	WI		
Niles; Andrew L.	Madison	WI		
Haak-Frendscho; Mary	Madison	WI		

US-CL-CURRENT: 435/226; 435/212, 435/219, 435/252.3, 435/254.11, 435/320.1, 435/325, 536/23.1, 536/23.2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw Desc | Image

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☐ 3. Document ID: WO 9960139 A1

L6: Entry 3 of 4 File: EPAB Nov 25, 1999

PUB-NO: WO009960139A1
DOCUMENT-IDENTIFIER: WO 9960139 A1
TITLE: ENZYMATICALLY-ACTIVE RECOMBINANT HUMAN beta -TRYPTASE AND METHOD OF MAKING SAME

PUBN-DATE: November 25, 1999

INVENTOR-INFORMATION:

NAME	COUNTRY
MAFFITT, MARK A	
NILES, ANDREW L	
HAAK-FRENDSCHO, MARY	

INT-CL (IPC): C12 N 15/81; C12 N 15/57; C12 N 1/19; C12 Q 1/37; C07 K 16/40
EUR-CL (EPC): C12N009/64; C12N015/81

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw Desc | Image

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☐ 4. Document ID: AU 752359 B WO 9960139 A1 AU 9912885 A EP 1078082 A1 US 6274366 B1 JP 2002515254 W

L6: Entry 4 of 4 File: DWPI Sep 19, 2002

DERWENT-ACC-NO: 2000-053300
DERWENT-WEEK: 200272
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TITLE: New DNA expression construct for production of enzymatically active recombinant human beta-tryptase

INVENTOR: HAAK-FRENDSCHO, M; MAFFITT, M A ; NILES, A L

PRIORITY-DATA: 1998US-0079970 (May 15, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
AU 752359 B	September 19, 2002		000	C12N015/81
WO 9960139 A1	November 25, 1999	E	049	C12N015/81
AU 9912885 A	December 6, 1999		000	C12N015/81
EP 1078082 A1	February 28, 2001	E	000	C12N015/81
US 6274366 B1	August 14, 2001		000	C12N009/50
JP 2002515254 W	May 28, 2002		056	C12N015/09

INT-CL (IPC): C07 H 21/04; C07 K 16/40; C12 N 1/19; C12 N 9/50; C12 N 9/64; C12 N 15/00; C12 N 15/09; C12 N 15/57; C12 N 15/81; C12 P 21/08; C12 Q 1/37; C12 N 9/64; C12 R 1:645

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw. Desc | Clip Img | Image

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SEA TRYPTAS? AND HUMA? AND (SIGNA? OR SECRET?)

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8 FILE NLDB

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FILE 'MEDLINE, EMBASE, USPATFULL, BIOSIS, SCISEARCH, CAPLUS, ESBIOBASE, BIOTECHNO, PASCAL, DGENE, CANCERLIT, LIFESCI, TOXCENTER, JICST-EPLUS, FEDRIP, PROMT, IFIPAT, DRUGU, USPAT2' ENTERED AT 18:58:39 ON 10 FEB 2003

L2 5228 S TRYPTAS? (S) (SIGN? OR SECRE?)
L3 1954 S L2 (S) HUMA?
L4 1281 S L3 (S) ACTIV?
L5 218 S L4 (S) BETA?
L6 124 DUP REM L5 (94 DUPLICATES REMOVED)
L7 23 S L6 AND (YEAS? OR PICHI? OR EUKARYOT?)

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 NEWS  8  Apr 22   Federal Research in Progress (FEDRIP) now available
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 NEWS 11  Jun 10   PCTFULL has been reloaded
 NEWS 12  Jul 02   FOREGE no longer contains STANDARDS file segment
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                   saved answer sets no longer valid
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 NEWS 18  Aug 08   NTIS has been reloaded and enhanced
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                   now available on STN
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 NEWS 21  Aug 19   The MEDLINE file segment of TOXCENTER has been reloaded
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 NEWS 23  Sep 03   JAPIO has been reloaded and enhanced
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 NEWS 27  Oct 21   EVENTLINE has been reloaded
 NEWS 28  Oct 24   BEILSTEIN adds new search fields
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 NEWS 32  Nov 25   More calculated properties added to REGISTRY
 NEWS 33  Dec 02   TIBKAT will be removed from STN
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 NEWS 35  Dec 17   PCTFULL now covers WP/PCT Applications from 1978 to date
 NEWS 36  Dec 17   TOXCENTER enhanced with additional content
 NEWS 37  Dec 17   Adis Clinical Trials Insight now available on STN
 NEWS 38  Dec 30   ISMEC no longer available
 NEWS 39  Jan 13   Indexing added to some pre-1967 records in CA/CAPLUS
 NEWS 40  Jan 21   NUTRACEUT offering one free connect hour in February 2003
 NEWS 41  Jan 21   PHARMAML offering one free connect hour in February 2003
 NEWS 42  Jan 29   Simultaneous left and right truncation added to COMPENDEX,
                   ENERGY, INSPEC

 NEWS EXPRESS  January 6 CURRENT WINDOWS VERSION IS V6.01a,
               CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
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       CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE,
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        198   FILE CAPLUS
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          6   FILE GENBANK
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         18   FILE JICST-EPLUS
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=> s tryptas? same huma? same (signa? or secret?)
MISSING OPERATOR 'SAME (SIGNA?'
The search profile that was entered contains terms or
nested terms that are not separated by a logical operator.

=> s tryptas? (s) (sign? or secre?)
   4 FILES SEARCHED...
  10 FILES SEARCHED...
  14 FILES SEARCHED...
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'TRYPTAS? (S) '
L2        5228 TRYPTAS? (S) (SIGN? OR SECRE?)
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=> s l2 (s) huma?
   8 FILES SEARCHED...
  10 FILES SEARCHED...
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'L16 (S) HUMA?'
L3        1954 L2 (S) HUMA?

=> s l3 (s) activ?
   6 FILES SEARCHED...
  10 FILES SEARCHED...
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'L36 (S) ACTIV?'
  17 FILES SEARCHED...
L4        1281 L3 (S) ACTIV?

<------User Break------>

SEARCH ENDED BY USER

=> s l4 (s) beta?
  14 FILES SEARCHED...
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'L56 (S) BETA?'
L5         218 L4 (S) BETA?

=> dup rem l5
DUPLICATE IS NOT AVAILABLE IN 'DGENE, FEDRIP'.
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L5
L6          124 DUP REM L5 (94 DUPLICATES REMOVED)

=> d ti l5 1-124

L5   ANSWER 1 OF 218     MEDLINE
TI   Formation of active monomers from tetrameric human beta-tryptase.

L5   ANSWER 2 OF 218     MEDLINE
TI   Biochemical and functional characterization of human transmembrane
     tryptase (TMT)/tryptase gamma. TMT is an exocytosed mast cell protease
     that induces airway hyperresponsiveness in vivo via an
     interleukin-13/interleukin-4 receptor alpha/signal transducer and
     activator of transcription (STAT) 6-dependent pathway.

L5   ANSWER 3 OF 218     MEDLINE
TI   Tissue-specific expression of mast cell granule serine proteinases and
     their role in inflammation in the lung and gut.

L5   ANSWER 4 OF 218     MEDLINE
TI   Human tryptase epsilon (PRSS22), a new member of the chromosome 16p13.3
     family of human serine proteases expressed in airway epithelial cells.

L5   ANSWER 5 OF 218     MEDLINE
TI   Human mast cells release metalloproteinase-9 on contact with activated T
     cells: juxtacrine regulation by TNF-alpha.

L5   ANSWER 6 OF 218     MEDLINE
TI   Evaluation of the substrate specificity of human mast cell tryptase beta I
     and demonstration of its importance in bacterial infections of the lung.

L5   ANSWER 7 OF 218     MEDLINE
TI   Mast cell involvement in normal human skin wound healing: expression of
     monocyte chemoattractant protein-1 is correlated with recruitment of mast
     cells which synthesize interleukin-4 in vivo.

L5   ANSWER 8 OF 218     MEDLINE
```

TI Effects of nerve growth factor (NGF) and other fibroblast-derived growth factors on immature human mast cells (HMC-1).

L5 ANSWER 9 OF 218 MEDLINE
TI Recombinant human mast cell tryptase beta: stable expression in Pichia pastoris and purification of fully active enzyme.

L5 ANSWER 10 OF 218 MEDLINE
TI Cloning and expression of the dog mast cell alpha-chymase gene.

L5 ANSWER 11 OF 218 MEDLINE
TI Markers of mast cell degranulation.

L5 ANSWER 12 OF 218 MEDLINE
TI Human mast cells activate fibroblasts: tryptase is a fibrogenic factor stimulating collagen messenger ribonucleic acid synthesis and fibroblast chemotaxis.

L5 ANSWER 13 OF 218 MEDLINE
TI Mastocytosis: new understandings in cutaneous pathophysiology.

L5 ANSWER 14 OF 218 MEDLINE
TI Antiallergic actions of high topical doses of terbutaline in human nasal airways.

L5 ANSWER 15 OF 218 MEDLINE
TI Expression and purification of recombinant human tryptase in a baculovirus system.

L5 ANSWER 16 OF 218 MEDLINE
TI A novel heparin-dependent processing pathway for human tryptase. Autocatalysis followed by activation with dipeptidyl peptidase I.

L5 ANSWER 17 OF 218 MEDLINE
TI Effect of CC chemokines on mediator release from human skin mast cells and basophils.

L5 ANSWER 18 OF 218 MEDLINE
TI Differential expression of complement receptors on human basophils and mast cells. Evidence for mast cell heterogeneity and CD88/C5aR expression on skin mast cells.

L5 ANSWER 19 OF 218 MEDLINE
TI Phenotypic characterization of the human mast-cell line HMC-1.

L5 ANSWER 20 OF 218 MEDLINE
TI Role of mast cell and neutrophil proteases in airway secretion.

L5 ANSWER 21 OF 218 MEDLINE
TI New biological functions of intracellular proteases and their endogenous inhibitors as bioreactants.

L5 ANSWER 22 OF 218 MEDLINE
TI The fibrinogenolytic activity of purified tryptase from human lung mast cells.

L5 ANSWER 23 OF 218 MEDLINE
TI Acid hydrolases and tryptase from secretory granules of dispersed human lung mast cells.

L5 ANSWER 24 OF 218 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
TI Biochemical and functional characterization of human transmembrane tryptase (TMT)/tryptase .gamma.: TMT is an exocytosed mast cell protease that induces airway hyperresponsiveness in vivo via an interleukin-13/interleukin-4 receptor .alpha./signal transducer and

activator of transcription (STAT) 6-dependent pathway.

L5 ANSWER 25 OF 218 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
TI Regulation of eosinophil-active cytokine production from human cord blood-derived mast cells.

L5 ANSWER 26 OF 218 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
TI Tissue-specific expression of mast cell granule serine proteinases and their role in inflammation in the lung and gut.

L5 ANSWER 27 OF 218 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
TI Human mast cells release metalloproteinase-9 on contact with activated T cells: Juxtacrine regulation by TNF-.alpha..

L5 ANSWER 28 OF 218 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
TI Mast cell involvement in normal human skin wound healing: Expression of monocyte chemoattractant protein-I is correlated with recruitment of mast cells which synthesize interleukin-4 in vivo.

L5 ANSWER 29 OF 218 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
TI Effects of nerve growth factor (NGF) and other fibroblast-derived growth factors on immature human mast cells (HMC-1).

L5 ANSWER 30 OF 218 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
TI Effects of 0.2 ppm ozone on biomarkers of inflammation in bronchoalveolar lavage fluid and bronchial mucosa of healthy subjects.

L5 ANSWER 31 OF 218 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
TI Phenotypic and functional characterization of mast cells derived from renal tumor tissues.

L5 ANSWER 32 OF 218 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
TI Markers of mast cell degranulation.

L5 ANSWER 33 OF 218 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
TI A novel heparin-dependent processing pathway for human tryptase. Autocatalysis followed by activation with dipeptidyl peptidase I.

L5 ANSWER 34 OF 218 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
TI Antiallergic actions of high topical doses of terbutaline in human nasal airways.

L5 ANSWER 35 OF 218 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
TI Effect of CC chemokines on mediator release from human skin mast cells and basophils.

L5 ANSWER 36 OF 218 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
TI Differential expression of complement receptors on human basophils and mast cells: Evidence for mast cell heterogeneity and CD88/C5aR expression on skin mast cells.

L5 ANSWER 37 OF 218 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
TI Phenotypic characterization of the human mast-cell line HMC-1.

L5 ANSWER 38 OF 218 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
TI Role of mast cell and neutrophil proteases in airway secretion.

L5 ANSWER 39 OF 218 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
TI The fibrinogenolytic activity of purified tryptase from human lung mast cells.

L5 ANSWER 40 OF 218 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
TI Acid hydrolases and tryptase from secretory granules of dispersed human lung mast cells.

L5 ANSWER 41 OF 218 USPATFULL
TI Tryptase-like polypeptide ztryp1

L5 ANSWER 42 OF 218 USPATFULL
TI Tryptase substrates and assay for tryptase activity using same

L5 ANSWER 43 OF 218 USPATFULL
TI Tryptase inhibitors

L5 ANSWER 44 OF 218 USPATFULL
TI DNA encoding the human serine protease EOS

L5 ANSWER 45 OF 218 USPATFULL
TI JAK-3 inhibitors for treating allergic disorders

L5 ANSWER 46 OF 218 USPATFULL
TI DNA encoding the human serine protease C-E

L5 ANSWER 47 OF 218 USPATFULL
TI Regulation of human eosinophil serine protease 1- like enzyme

L5 ANSWER 48 OF 218 USPATFULL
TI DNA encoding the human serine protease EOS

L5 ANSWER 49 OF 218 USPATFULL
TI DNA encoding the human serine protease EOS

L5 ANSWER 50 OF 218 USPATFULL
TI DNA encoding the human serine protease EOS

L5 ANSWER 51 OF 218 USPATFULL
TI Method for reducing or preventing the establishment, growth or metastasis of cancer by administering benzimidazolone peptidomimetics PAR-1 antagonist and optionally PAR-2 antagonists

L5 ANSWER 52 OF 218 USPATFULL
TI Method for reducing or preventing the establishment, growth or metastasis of cancer by administering indole peptidomimetics PAR-1 antagonist and optionally PAR-2 antagonists

L5 ANSWER 53 OF 218 USPATFULL
TI DNA

L5 ANSWER 54 OF 218 USPATFULL
TI JAK-3 inhibitors for treating allergic disorders

L5 ANSWER 55 OF 218 USPATFULL
TI Sequence directed DNA binding molecules compositions and methods

L5 ANSWER 56 OF 218 USPATFULL
TI Method for reducing or preventing the establishment, growth or metastasis of cancer by administering PAR-1 and optionally PAR-2 antagonists

L5 ANSWER 57 OF 218 USPATFULL
TI Method for reducing or preventing the establishment, growth or metastasis of cancer by administering indazole peptidomimetics PAR-1 antagonist and optionally PAR-2 antagonists

L5 ANSWER 58 OF 218 USPATFULL
TI JAK-3 inhibitors for treating allergic disorders

L5 ANSWER 59 OF 218 USPATFULL
TI JAK-3 inhibitors for treating allergic disorders

L5 ANSWER 60 OF 218 USPATFULL
TI Enzymatically-active recombinant human .beta.-tryptase and method of making same

L5 ANSWER 61 OF 218 USPATFULL
TI JAK-3 inhibitors for treating allergic disorders

L5 ANSWER 62 OF 218 USPATFULL
TI Therapeutic use of JAK-3 inhibitors

L5 ANSWER 63 OF 218 USPATFULL
TI JAK-3 inhibitors for treating allergic disorders

L5 ANSWER 64 OF 218 USPATFULL
TI Sequence-directed DNA binding molecules compositions and methods

L5 ANSWER 65 OF 218 USPATFULL
TI Mast cell protease that cleaves fibrinogen

L5 ANSWER 66 OF 218 USPATFULL
TI Method of determining DNA sequence preference of a DNA-binding molecule

L5 ANSWER 67 OF 218 USPATFULL
TI Sequence-directed DNA-binding molecules compositions and methods

L5 ANSWER 68 OF 218 USPATFULL
TI Sequence-directed DNA-binding molecules compositions and methods

L5 ANSWER 69 OF 218 USPATFULL
TI Screening assay for the detection of DNA-binding molecules

L5 ANSWER 70 OF 218 USPATFULL
TI Method of constructing sequence-specific DNA-binding molecules

L5 ANSWER 71 OF 218 USPATFULL
TI Method of ordering sequence binding preferences of a DNA-binding molecule

L5 ANSWER 72 OF 218 USPATFULL
TI Sequence-directed DNA-binding molecules compositions and methods

L5 ANSWER 73 OF 218 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Biochemical and functional characterization of human transmembrane tryptase (TMT)/tryptase gamma. TMT is an exocytosed mast cell protease that induces airway hyperresponsiveness in vivo via an interleukin-13/interleukin-4 receptor alpha/signal transducer and activator of transcription (STAT) 6-dependent pathway.

L5 ANSWER 74 OF 218 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Tissue-specific expression of mast cell granule serine proteinases and their role in inflammation in the lung and gut.

L5 ANSWER 75 OF 218 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI **Tryptase** stimulates TGF-**beta1** synthesis and **secretion**, and the release of mast cell chemotactic **activity** from **human** airway smooth muscle cells.

L5 ANSWER 76 OF 218 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Human tryptase epsilon (PRSS22), a new member of the chromosome 16p13.3 family of human serine proteases expressed in airway epithelial cells.

L5 ANSWER 77 OF 218 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Evaluation of the substrate specificity of human mast cell tryptase betaI and demonstration of its importance in bacterial infections of the lung.

L5 ANSWER 78 OF 218 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Mast cell involvement in normal human skin wound healing: Expression of monocyte chemoattractant protein-1 is correlated with recruitment of mast cells which synthesize interleukin-4 in vivo.

L5 ANSWER 79 OF 218 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Effects of nerve growth factor (NGF) and other fibroblast-derived growth factors on immature human mast cells (HMC-1.

L5 ANSWER 80 OF 218 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Markers of mast cell degranulation.

L5 ANSWER 81 OF 218 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI A novel heparin-dependent processing pathway for human tryptase: Autocatalysis followed by activation with dipeptidyl peptidase I.

L5 ANSWER 82 OF 218 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Expression and purification of recombinant human tryptase in a baculovirus system.

L5 ANSWER 83 OF 218 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Antiallergic actions of high topical doses of terbutaline in human nasal airways.

L5 ANSWER 84 OF 218 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Effect of CC chemokines on mediator release from human skin mast cells and basophils.

L5 ANSWER 85 OF 218 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Differential expression of complement receptors on human basophils and mast cells: Evidence for mast cell heterogeneity and CD88/C5aR expression on skin mast cells.

L5 ANSWER 86 OF 218 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Phenotypic characterization of the human mast-cell line HMC-1.

L5 ANSWER 87 OF 218 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI MUCIN IN DISEASE ROLE OF MAST CELL AND NEUTROPHIL PROTEASES IN AIRWAY SECRETION.

L5 ANSWER 88 OF 218 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI THE FIBRINOGENOLYTIC ACTIVITY OF PURIFIED TRYPTASE FROM HUMAN LUNG MAST CELLS.

L5 ANSWER 89 OF 218 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI ACID HYDROLASES AND TRYPTASE FROM SECRETORY GRANULES OF DISPERSED HUMAN LUNG MAST CELLS.

L5 ANSWER 90 OF 218 SCISEARCH COPYRIGHT 2003 ISI (R)
TI Tissue-specific expression of mast cell granule serine proteinases and their role in inflammation in the lung and gut

L5 ANSWER 91 OF 218 SCISEARCH COPYRIGHT 2003 ISI (R)
TI **Tryptase** stimulates TGF-**beta** 1 synthesis and **secretion**, and the release of mast cell chemotactic **activity** from **human** airway smooth muscle cells

L5 ANSWER 92 OF 218 SCISEARCH COPYRIGHT 2003 ISI (R)
TI Human tryptase epsilon (PRSS22), a new member of the chromosome 16p13.3 family of human serine proteases expressed in airway epithelial cells

L5 ANSWER 93 OF 218 SCISEARCH COPYRIGHT 2003 ISI (R)
TI Human mast cells release metalloproteinase-9 on contact with activated T cells: Juxtacrine regulation by TNF-alpha

L5 ANSWER 94 OF 218 SCISEARCH COPYRIGHT 2003 ISI (R)
TI Evaluation of the substrate specificity of human mast cell tryptase beta I and demonstration of its importance in bacterial infections of the lung

L5 ANSWER 95 OF 218 SCISEARCH COPYRIGHT 2003 ISI (R)
TI Mast cell involvement in normal human skin wound healing: expression of monocyte chemoattractant protein-I is correlated with recruitment of mast cells which synthesize interleukin-4 in vivo

L5 ANSWER 96 OF 218 SCISEARCH COPYRIGHT 2003 ISI (R)
TI Effects of nerve growth factor (NGF) and other fibroblast-derived growth factors on immature human mast cells (HMC-1)

L5 ANSWER 97 OF 218 SCISEARCH COPYRIGHT 2003 ISI (R)
TI Cloning and expression of the dog mast cell alpha-chymase gene

L5 ANSWER 98 OF 218 SCISEARCH COPYRIGHT 2003 ISI (R)
TI Phenotypic and functional characterization of mast cells derived from renal tumor tissues

L5 ANSWER 99 OF 218 SCISEARCH COPYRIGHT 2003 ISI (R)
TI Markers of mast cell degranulation

L5 ANSWER 100 OF 218 SCISEARCH COPYRIGHT 2003 ISI (R)
TI Human mast cells activate fibroblasts - Tryptase is a fibrogenic factor stimulating collagen messenger ribonucleic acid synthesis and fibroblast chemotaxis

L5 ANSWER 101 OF 218 SCISEARCH COPYRIGHT 2003 ISI (R)
TI A NOVEL HEPARIN-DEPENDENT PROCESSING PATHWAY FOR HUMAN TRYPTASE - AUTOCATALYSIS FOLLOWED BY ACTIVATION WITH DIPEPTIDYL PEPTIDASE-I

L5 ANSWER 102 OF 218 SCISEARCH COPYRIGHT 2003 ISI (R)
TI EXPRESSION AND PURIFICATION OF RECOMBINANT HUMAN TRYPTASE IN A BACULOVIRUS SYSTEM

L5 ANSWER 103 OF 218 SCISEARCH COPYRIGHT 2003 ISI (R)
TI ANTIALLERGIC ACTIONS OF HIGH TOPICAL DOSES OF TERBUTALINE IN HUMAN NASAL AIRWAYS

L5 ANSWER 104 OF 218 SCISEARCH COPYRIGHT 2003 ISI (R)
TI EFFECT OF CC-CHEMOKINES ON MEDIATOR RELEASE FROM HUMAN SKIN MAST-CELLS AND BASOPHILS

L5 ANSWER 105 OF 218 SCISEARCH COPYRIGHT 2003 ISI (R)
TI DIFFERENTIAL EXPRESSION OF COMPLEMENT RECEPTORS ON HUMAN BASOPHILS AND MAST-CELLS - EVIDENCE FOR MAST-CELL HETEROGENEITY AND CD88/C5AR EXPRESSION ON SKIN MAST-CELLS

L5 ANSWER 106 OF 218 SCISEARCH COPYRIGHT 2003 ISI (R)
TI PHENOTYPIC CHARACTERIZATION OF THE HUMAN MAST-CELL LINE HMC-1

L5 ANSWER 107 OF 218 SCISEARCH COPYRIGHT 2003 ISI (R)
TI ROLE OF MAST-CELL AND NEUTROPHIL PROTEASES IN AIRWAY SECRETION

L5 ANSWER 108 OF 218 CAPLUS COPYRIGHT 2003 ACS
TI Expression of an enzymatically-active recombinant human .beta.-tryptase in Pichia pastoris, and uses thereof in drug screening assays

L5 ANSWER 109 OF 218 Elsevier BIOBASE COPYRIGHT 2003 Elsevier Science B.V.
TI Biochemical and functional characterization of human transmembrane tryptase (TMT)/tryptase .gamma.: TMT is an exocytosed mast cell protease that induces airway hyperresponsiveness in vivo via an interleukin-13/interleukin-4 receptor .alpha./signal transducer and activator of transcription (STAT) 6-dependent pathway

L5 ANSWER 110 OF 218 Elsevier BIOBASE COPYRIGHT 2003 Elsevier Science B.V.
TI Regulation of eosinophil-active cytokine production from human cord blood-derived mast cells

L5 ANSWER 111 OF 218 Elsevier BIOBASE COPYRIGHT 2003 Elsevier Science B.V.
TI Tissue-specific expression of mast cell granule serine proteinases and their role in inflammation in the lung and gut

L5 ANSWER 112 OF 218 Elsevier BIOBASE COPYRIGHT 2003 Elsevier Science B.V.
TI Human mast cells release metalloproteinase-9 on contact with activated T cells: Juxtacrine regulation by TNF-.alpha.

L5 ANSWER 113 OF 218 Elsevier BIOBASE COPYRIGHT 2003 Elsevier Science B.V.
TI Mast cell involvement in normal human skin wound healing: Expression of monocyte chemoattractant protein-I is correlated with recruitment of mast cells which synthesize interleukin-4 in vivo

L5 ANSWER 114 OF 218 Elsevier BIOBASE COPYRIGHT 2003 Elsevier Science B.V.
TI Effects of nerve growth factor (NGF) and other fibroblast-derived growth factors on immature human mast cells (HMC-1)

L5 ANSWER 115 OF 218 Elsevier BIOBASE COPYRIGHT 2003 Elsevier Science B.V.
TI Effects of 0.2 ppm ozone on biomarkers of inflammation in bronchoalveolar lavage fluid and bronchial mucosa of healthy subjects

L5 ANSWER 116 OF 218 Elsevier BIOBASE COPYRIGHT 2003 Elsevier Science B.V.
TI Expression and purification of recombinant human tryptase in a baculovirus system

L5 ANSWER 117 OF 218 Elsevier BIOBASE COPYRIGHT 2003 Elsevier Science B.V.
TI Differential expression of complement receptors on human basophils and mast cells: Evidence for mast cell heterogeneity and CD88/C5aR expression on skin mast cells

L5 ANSWER 118 OF 218 Elsevier BIOBASE COPYRIGHT 2003 Elsevier Science B.V.
TI Effect of CC chemokines on mediator release from human skin mast cells and basophils

L5 ANSWER 119 OF 218 Elsevier BIOBASE COPYRIGHT 2003 Elsevier Science B.V.
TI Phenotypic characterization of the human mast-cell line HMC-1

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TI Biochemical and functional characterization of human transmembrane tryptase (TMT)/tryptase .gamma.: TMT is an exocytosed mast cell protease that induces airway hyperresponsiveness in vivo via an interleukin-13/interleukin-4 receptor .alpha./signal transducer and activator of transcription (STAT) 6-dependent pathway

L5 ANSWER 121 OF 218 BIOTECHNO COPYRIGHT 2003 Elsevier Science B.V.
TI Tissue-specific expression of mast cell granule serine proteinases and their role in inflammation in the lung and gut

L5 ANSWER 122 OF 218 BIOTECHNO COPYRIGHT 2003 Elsevier Science B.V.
TI Human mast cells release metalloproteinase-9 on contact with activated T cells: Juxtacrine regulation by TNF-.alpha.

L5 ANSWER 123 OF 218 BIOTECHNO COPYRIGHT 2003 Elsevier Science B.V.
TI Mast cell involvement in normal human skin wound healing: Expression of monocyte chemoattractant protein-I is correlated with recruitment of mast cells which synthesize interleukin-4 in vivo

L5 ANSWER 124 OF 218 BIOTECHNO COPYRIGHT 2003 Elsevier Science B.V.
TI Effects of nerve growth factor (NGF) and other fibroblast-derived growth factors on immature human mast cells (HMC-1)

```
=> d ti l6 1-124

L6   ANSWER 1 OF 124  USPATFULL
TI     Tryptase-like polypeptide ztryp1

L6   ANSWER 2 OF 124     MEDLINE
TI   Formation of active monomers from tetrameric human beta-tryptase.

L6   ANSWER 3 OF 124  USPATFULL                          DUPLICATE 1
TI     Tryptase substrates and assay for tryptase activity using same

L6   ANSWER 4 OF 124  USPATFULL                          DUPLICATE 2
TI     JAK-3 inhibitors for treating allergic disorders

L6   ANSWER 5 OF 124  USPATFULL
TI     JAK-3 inhibitors for treating allergic disorders

L6   ANSWER 6 OF 124  USPATFULL
TI     DNA encoding the human serine protease C-E

L6   ANSWER 7 OF 124  USPATFULL
TI     Regulation of human eosinophil serine protease 1- like enzyme

L6   ANSWER 8 OF 124  USPATFULL
TI     DNA encoding the human serine protease EOS

L6   ANSWER 9 OF 124  USPATFULL
TI     DNA encoding the human serine protease EOS

L6   ANSWER 10 OF 124  USPATFULL
TI     DNA encoding the human serine protease EOS

L6   ANSWER 11 OF 124  USPATFULL
TI     Method for reducing or preventing the establishment, growth or
       metastasis of cancer by administering benzimidazolone peptidomimetics
       PAR-1 antagonist and optionally PAR-2   antagonists

L6   ANSWER 12 OF 124  USPATFULL
TI     Method for reducing or preventing the establishment, growth or
       metastasis of cancer by administering indole peptidomimetics PAR-1
       antagonist and optionally PAR-2 antagonists

L6   ANSWER 13 OF 124  USPATFULL
TI     Method for reducing or preventing the establishment, growth or
       metastasis of cancer by administering PAR-1 and optionally PAR-2
       antagonists

L6   ANSWER 14 OF 124  USPATFULL
TI     Method for reducing or preventing the establishment, growth or
       metastasis of cancer by administering indazole peptidomimetics PAR-1
       antagonist and optionally PAR-2 antagonists

L6   ANSWER 15 OF 124  USPATFULL
TI     Tryptase inhibitors

L6   ANSWER 16 OF 124  USPATFULL
TI     DNA encoding the human serine protease EOS

L6   ANSWER 17 OF 124  USPATFULL
TI     DNA

L6   ANSWER 18 OF 124  USPATFULL
TI     Sequence directed DNA binding molecules compositions and methods
```

L6 ANSWER 19 OF 124 IFIPAT COPYRIGHT 2003 IFI
TI THERAPEUTIC APPROACHES TO DISEASES BY SUPPRESSION OF THE NURR SUBFAMILY OF NUCLEAR TRANSCRIPTION FACTORS; ANTAGONIST TO INHIBIT TRANSCRIPTIONAL ACTIVITY OF A NUCLEAR RECEPTOR POLYPEPTIDE WITH A NURR SUBFAMILY AMINO ACID SEQUENCE: TREATMENT OF THE INFLAMMATORY PROCESS IN HUMAN ARTHRITIS.

L6 ANSWER 20 OF 124 MEDLINE DUPLICATE 3
TI Biochemical and functional characterization of human transmembrane tryptase (TMT)/tryptase gamma. TMT is an exocytosed mast cell protease that induces airway hyperresponsiveness in vivo via an interleukin-13/interleukin-4 receptor alpha/signal transducer and activator of transcription (STAT) 6-dependent pathway.

L6 ANSWER 21 OF 124 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.DUPLICATE 4
TI Regulation of eosinophil-active cytokine production from human cord blood-derived mast cells.

L6 ANSWER 22 OF 124 MEDLINE DUPLICATE 5
TI Tissue-specific expression of mast cell granule serine proteinases and their role in inflammation in the lung and gut.

L6 ANSWER 23 OF 124 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. DUPLICATE 6
TI **Tryptase** stimulates TGF-**beta1** synthesis and **secretion**, and the release of mast cell chemotactic **activity** from **human** airway smooth muscle cells.

L6 ANSWER 24 OF 124 USPATFULL DUPLICATE 7
TI Enzymatically-active recombinant human .beta.-tryptase and method of making same

L6 ANSWER 25 OF 124 USPATFULL
TI JAK-3 inhibitors for treating allergic disorders

L6 ANSWER 26 OF 124 USPATFULL
TI JAK-3 inhibitors for treating allergic disorders

L6 ANSWER 27 OF 124 USPATFULL
TI JAK-3 inhibitors for treating allergic disorders

L6 ANSWER 28 OF 124 MEDLINE DUPLICATE 8
TI Human tryptase epsilon (PRSS22), a new member of the chromosome 16p13.3 family of human serine proteases expressed in airway epithelial cells.

L6 ANSWER 29 OF 124 MEDLINE DUPLICATE 9
TI Evaluation of the substrate specificity of human mast cell tryptase beta I and demonstration of its importance in bacterial infections of the lung.

L6 ANSWER 30 OF 124 MEDLINE DUPLICATE 10
TI Human mast cells release metalloproteinase-9 on contact with activated T cells: juxtacrine regulation by TNF-alpha.

L6 ANSWER 31 OF 124 USPATFULL
TI Therapeutic use of JAK-3 inhibitors

L6 ANSWER 32 OF 124 USPATFULL
TI JAK-3 inhibitors for treating allergic disorders

L6 ANSWER 33 OF 124 USPATFULL
TI Sequence-directed DNA binding molecules compositions and methods

L6 ANSWER 34 OF 124 MEDLINE DUPLICATE 11
TI Mast cell involvement in normal human skin wound healing: expression of monocyte chemoattractant protein-1 is correlated with recruitment of mast

cells which synthesize interleukin-4 in vivo.

L6 ANSWER 35 OF 124 USPATFULL
TI Mast cell protease that cleaves fibrinogen

L6 ANSWER 36 OF 124 USPATFULL
TI Method of determining DNA sequence preference of a DNA-binding molecule

L6 ANSWER 37 OF 124 CAPLUS COPYRIGHT 2003 ACS
TI Expression of an enzymatically-active recombinant human .beta.-tryptase in Pichia pastoris, and uses thereof in drug screening assays

L6 ANSWER 38 OF 124 USPATFULL
TI Sequence-directed DNA-binding molecules compositions and methods

L6 ANSWER 39 OF 124 USPATFULL
TI Sequence-directed DNA-binding molecules compositions and methods

L6 ANSWER 40 OF 124 USPATFULL
TI Screening assay for the detection of DNA-binding molecules

L6 ANSWER 41 OF 124 USPATFULL
TI Method of constructing sequence-specific DNA-binding molecules

L6 ANSWER 42 OF 124 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.DUPLICATE 12
TI Effects of 0.2 ppm ozone on biomarkers of inflammation in bronchoalveolar lavage fluid and bronchial mucosa of healthy subjects.

L6 ANSWER 43 OF 124 MEDLINE DUPLICATE 13
TI Effects of nerve growth factor (NGF) and other fibroblast-derived growth factors on immature human mast cells (HMC-1).

L6 ANSWER 44 OF 124 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.DUPLICATE 14
TI Phenotypic and functional characterization of mast cells derived from renal tumor tissues.

L6 ANSWER 45 OF 124 MEDLINE
TI Recombinant human mast cell tryptase beta: stable expression in Pichia pastoris and purification of fully active enzyme.

L6 ANSWER 46 OF 124 USPATFULL
TI Method of ordering sequence binding preferences of a DNA-binding molecule

L6 ANSWER 47 OF 124 MEDLINE DUPLICATE 15
TI Cloning and expression of the dog mast cell alpha-chymase gene.

L6 ANSWER 48 OF 124 MEDLINE DUPLICATE 16
TI Human mast cells activate fibroblasts: tryptase is a fibrogenic factor stimulating collagen messenger ribonucleic acid synthesis and fibroblast chemotaxis.

L6 ANSWER 49 OF 124 MEDLINE DUPLICATE 17
TI Markers of mast cell degranulation.

L6 ANSWER 50 OF 124 USPATFULL
TI Sequence-directed DNA-binding molecules compositions and methods

L6 ANSWER 51 OF 124 MEDLINE DUPLICATE 18
TI A novel heparin-dependent processing pathway for human tryptase. Autocatalysis followed by activation with dipeptidyl peptidase I.

L6 ANSWER 52 OF 124 MEDLINE
TI Mastocytosis: new understandings in cutaneous pathophysiology.

L6 ANSWER 53 OF 124 MEDLINE DUPLICATE 19
TI Expression and purification of recombinant human tryptase in a baculovirus system.

L6 ANSWER 54 OF 124 MEDLINE DUPLICATE 20
TI Differential expression of complement receptors on human basophils and mast cells. Evidence for mast cell heterogeneity and CD88/C5aR expression on skin mast cells.

L6 ANSWER 55 OF 124 MEDLINE DUPLICATE 21
TI Antiallergic actions of high topical doses of terbutaline in human nasal airways.

L6 ANSWER 56 OF 124 MEDLINE DUPLICATE 22
TI Effect of CC chemokines on mediator release from human skin mast cells and basophils.

L6 ANSWER 57 OF 124 MEDLINE DUPLICATE 23
TI Phenotypic characterization of the human mast-cell line HMC-1.

L6 ANSWER 58 OF 124 MEDLINE DUPLICATE 24
TI Role of mast cell and neutrophil proteases in airway secretion.

L6 ANSWER 59 OF 124 MEDLINE
TI New biological functions of intracellular proteases and their endogenous inhibitors as bioreactants.

L6 ANSWER 60 OF 124 MEDLINE DUPLICATE 25
TI The fibrinogenolytic activity of purified tryptase from human lung mast cells.

L6 ANSWER 61 OF 124 MEDLINE DUPLICATE 26
TI Acid hydrolases and tryptase from secretory granules of dispersed human lung mast cells.

L6 ANSWER 62 OF 124 DGENE (C) 2003 THOMSON DERWENT
TI DNA construct for producing enzymatically-inactive proteolytic tryptase, comprises DNA sequence encoding proteolytic tryptase having an active site mutation -

L6 ANSWER 63 OF 124 DGENE (C) 2003 THOMSON DERWENT
TI DNA construct for producing enzymatically-inactive proteolytic tryptase, comprises DNA sequence encoding proteolytic tryptase having an active site mutation -

L6 ANSWER 64 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 65 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 66 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 67 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 68 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 69 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 70 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 71 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 72 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 73 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 74 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 75 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 76 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 77 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 78 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 79 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 80 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 81 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 82 OF 124 DGENE (C) 2003 THOMSON DERWENT
TI New DNA expression construct for production of enzymatically active recombinant human beta-tryptase -

L6 ANSWER 83 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 84 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 85 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 86 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 87 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 88 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 89 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 90 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 91 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 92 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 93 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 94 OF 124 DGENE (C) 2003 THOMSON DERWENT
TI DNA construct for producing enzymatically-inactive proteolytic tryptase,

comprises DNA sequence encoding proteolytic tryptase having an active site mutation -

L6 ANSWER 95 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 96 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 97 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 98 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 99 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 100 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 101 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 102 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 103 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 104 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 105 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 106 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 107 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 108 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 109 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 110 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 111 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 112 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 113 OF 124 DGENE (C) 2003 THOMSON DERWENT
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L6 ANSWER 114 OF 124 DGENE (C) 2003 THOMSON DERWENT
TI DNA construct for producing enzymatically-inactive proteolytic tryptase, comprises DNA sequence encoding proteolytic tryptase having an active site mutation -

L6 ANSWER 115 OF 124 DGENE (C) 2003 THOMSON DERWENT
TI New DNA expression construct for production of enzymatically active recombinant human beta-tryptase -

L6 ANSWER 116 OF 124 DGENE (C) 2003 THOMSON DERWENT
TI New DNA expression construct for production of enzymatically active recombinant human beta-tryptase -

L6 ANSWER 117 OF 124 DGENE (C) 2003 THOMSON DERWENT
TI New DNA expression construct for production of enzymatically active recombinant human beta-tryptase -

L6 ANSWER 118 OF 124 DGENE (C) 2003 THOMSON DERWENT
TI New DNA expression construct for production of enzymatically active recombinant human beta-tryptase -

L6 ANSWER 119 OF 124 FEDRIP COPYRIGHT 2003 NTIS
TI INDUCTION OF ATHEROGENESIS BY COCAINE AND HIV INFECTION

L6 ANSWER 120 OF 124 FEDRIP COPYRIGHT 2003 NTIS
TI THE ROLE OF CTGF IN SUBEPITHELIAL FIBROSIS IN ASTHMA

L6 ANSWER 121 OF 124 FEDRIP COPYRIGHT 2003 NTIS
TI RECOMBINANT **HUMAN** MAST CELL **TRYPTASES**

L6 ANSWER 122 OF 124 FEDRIP COPYRIGHT 2003 NTIS
TI MUCOSAL IMMUNITY TO VIRULENT AND VACCINE-STRAIN CMV

L6 ANSWER 123 OF 124 FEDRIP COPYRIGHT 2003 NTIS
TI MOLECULAR STUDIES OF **HUMAN** CORD BLOOD DERIVED MAST CELLS

L6 ANSWER 124 OF 124 FEDRIP COPYRIGHT 2003 NTIS
TI Biochemistry of Mast Cell **Secretory** Granule Enzymes

=> s l6 and (yeas? or pichi? or eukaryot?)
18 FILES SEARCHED...
L7 23 L6 AND (YEAS? OR PICHI? OR EUKARYOT?)

=> d ti l7 1-23

L7 ANSWER 1 OF 23 MEDLINE
TI Recombinant human mast cell tryptase beta: stable expression in **Pichia** pastoris and purification of fully active enzyme.

L7 ANSWER 2 OF 23 USPATFULL
TI Tryptase-like polypeptide ztryp1

L7 ANSWER 3 OF 23 USPATFULL
TI Tryptase substrates and assay for tryptase activity using same

L7 ANSWER 4 OF 23 USPATFULL
TI DNA encoding the human serine protease EOS

L7 ANSWER 5 OF 23 USPATFULL
TI DNA encoding the human serine protease C-E

L7 ANSWER 6 OF 23 USPATFULL
TI Regulation of human eosinophil serine protease 1- like enzyme

L7 ANSWER 7 OF 23 USPATFULL
TI DNA encoding the human serine protease EOS

L7 ANSWER 8 OF 23 USPATFULL
TI DNA encoding the human serine protease EOS

L7 ANSWER 9 OF 23 USPATFULL
TI DNA encoding the human serine protease EOS

L7 ANSWER 10 OF 23 USPATFULL
TI DNA

L7 ANSWER 11 OF 23 USPATFULL
TI Sequence directed DNA binding molecules compositions and methods

L7 ANSWER 12 OF 23 USPATFULL
TI Enzymatically-active recombinant human .beta.-tryptase and method of making same

L7 ANSWER 13 OF 23 USPATFULL
TI Sequence-directed DNA binding molecules compositions and methods

L7 ANSWER 14 OF 23 USPATFULL
TI Mast cell protease that cleaves fibrinogen

L7 ANSWER 15 OF 23 USPATFULL
TI Method of determining DNA sequence preference of a DNA-binding molecule

L7 ANSWER 16 OF 23 USPATFULL
TI Sequence-directed DNA-binding molecules compositions and methods

L7 ANSWER 17 OF 23 USPATFULL

TI Sequence-directed DNA-binding molecules compositions and methods

L7 ANSWER 18 OF 23 USPATFULL
TI Screening assay for the detection of DNA-binding molecules

L7 ANSWER 19 OF 23 USPATFULL
TI Method of constructing sequence-specific DNA-binding molecules

L7 ANSWER 20 OF 23 USPATFULL
TI Method of ordering sequence binding preferences of a DNA-binding molecule

L7 ANSWER 21 OF 23 USPATFULL
TI Sequence-directed DNA-binding molecules compositions and methods

L7 ANSWER 22 OF 23 CAPLUS COPYRIGHT 2003 ACS
TI Expression of an enzymatically-active recombinant human .beta.-tryptase in **Pichia** pastoris, and uses thereof in drug screening assays

L7 ANSWER 23 OF 23 FEDRIP COPYRIGHT 2003 NTIS
TI RECOMBINANT **HUMAN** MAST CELL **TRYPTASES**

=> d ti l6 45

L6 ANSWER 45 OF 124 MEDLINE
TI Recombinant human mast cell tryptase beta: stable expression in Pichia pastoris and purification of fully active enzyme.

=> d ibib abs l6 45

L6 ANSWER 45 OF 124 MEDLINE
ACCESSION NUMBER: 1998432044 MEDLINE
DOCUMENT NUMBER: 98432044 PubMed ID: 9756742
TITLE: Recombinant human mast cell tryptase beta: stable expression in Pichia pastoris and purification of fully active enzyme.
AUTHOR: Niles A L; Maffitt M; Haak-Frendscho M; Wheeless C J; Johnson D A
CORPORATE SOURCE: Promega Corp. 2800 Woods Hollow Road, Madison, WI 53711-5399, USA.
SOURCE: BIOTECHNOLOGY AND APPLIED BIOCHEMISTRY, (1998 Oct) 28 (Pt 2) 125-31.
Journal code: 8609465. ISSN: 0885-4513.
PUB. COUNTRY: ENGLAND: United Kingdom
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199811
ENTRY DATE: Entered STN: 19990106
Last Updated on STN: 20000303
Entered Medline: 19981124

AB **Human** mast cell **tryptase beta** (EC 3.4.21.59) is a trypsin-like serine protease that is stored in and released from mast cell granules. This enzyme has been expressed in Pichia pastoris via homologous recombination of the cDNA coding for the mature **active tryptase** with the addition of a KEX 2 processing site into the Pichia genome. Cells producing recombinant **human tryptase** (rHT) were selected by screening with antibodies. Induction with methanol resulted in the **secretion** of rHT into the Pichia growth medium; **tryptase activity** was stabilized by the addition of heparin to the culture medium. Increasing levels of enzyme were detected in the medium for up to 3 days. Fully **active** enzyme was purified from the culture medium with a 100%

yield of **activity** via a simple two-step procedure, with hydrophobic interaction chromatography followed by affinity chromatography on immobilized heparin. Bands of 33 (faint), 34.2, 35.9 and 50 kDa (diffuse) were observed on SDS/PAGE. These multiple forms were due to differences in post-translational glycosylation of asparagine residues, because enzymic deglycosylation resulted in only one band at 33 kDa. A single symmetrical peak with an estimated size of 197 kDa was obtained on gel filtration. Kinetic analyses in comparison with native **human** lung mast cell **tryptase** (HLT) yielded similar Km values, but the kcat of rHT was more than twice that of HLT.

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=> d his

     (FILE 'HOME' ENTERED AT 18:54:42 ON 10 FEB 2003)

     INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI,
     BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA,
     CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB,
     DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 18:54:54 ON
     10 FEB 2003
               SEA TRYPTAS? AND HUMA? AND (SIGNA? OR SECRET?)
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                1   FILE ADISNEWS
                1   FILE AQUASCI
                1   FILE BIOBUSINESS
              262   FILE BIOSIS
                7   FILE BIOTECHABS
                7   FILE BIOTECHDS
              125   FILE BIOTECHNO
                2   FILE CABA
               93   FILE CANCERLIT
              198   FILE CAPLUS
                4   FILE DDFU
              102   FILE DGENE
               12   FILE DRUGU
                1   FILE EMBAL
              301   FILE EMBASE
              130   FILE ESBIOBASE
               16   FILE FEDRIP
                6   FILE GENBANK
               13   FILE IFIPAT
               18   FILE JICST-EPLUS
               73   FILE LIFESCI
              325   FILE MEDLINE
                1   FILE NIOSHTIC
              116   FILE PASCAL
                2   FILE PHARMAML
                1   FILE PHIN
               15   FILE PROMT
              252   FILE SCISEARCH
               71   FILE TOXCENTER
              297   FILE USPATFULL
               10   FILE USPAT2
                8   FILE WPIDS
                8   FILE WPINDEX
                8   FILE NLDB
L1             QUE TRYPTAS? AND HUMA? AND (SIGNA? OR SECRET?)
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     FILE 'MEDLINE, EMBASE, USPATFULL, BIOSIS, SCISEARCH, CAPLUS, ESBIOBASE,
     BIOTECHNO, PASCAL, DGENE, CANCERLIT, LIFESCI, TOXCENTER, JICST-EPLUS,
     FEDRIP, PROMT, IFIPAT, DRUGU, USPAT2' ENTERED AT 18:58:39 ON 10 FEB 2003
L2          5228 S TRYPTAS? (S) (SIGN? OR SECRE?)
L3          1954 S L2 (S) HUMA?
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L4          1281 S L3 (S) ACTIV?
L5           218 S L4 (S) BETA?
L6           124 DUP REM L5 (94 DUPLICATES REMOVED)
L7            23 S L6 AND (YEAS? OR PICHI? OR EUKARYOT?)

=> log h
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    37.53      41.04

 SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 19:10:32 ON 10 FEB 2003
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